

CHERNUKH, A. M.

176765

USSR/Medicine - Pneumonia, Experi- 11 Apr 50  
mental  
Nervous System

"Mechanism of Nonspecific Resistance in Experi-  
mental Pneumonia," A. M. Chernukh, Inst Gen and  
Exptl Path, Acad Med Sci USSR

"Dok Ak Nauk SSSR" Vol LXXI, No 5, pp 1001-1004

First found that injecting around 0.05 ml of  
turpentine into the epineurium of the right or  
left vagus nerve of 29 rabbits resulted in death  
within 5 days, 21 showing signs of serous hem-  
orrhagic pneumonia. Second series of tests on

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USSR/Medicine - Pneumonia, Experi- 11 Apr 50  
mental (Contd)

17 rabbits consisted of checking effect of arti-  
ficial formation of embolus in one of the  
branches of the artery pulmonalis on the resis-  
tance to this experimental pneumonia. Finds sup-  
port for Speransky's theory in fact that irrita-  
tion of the neuroreceptor app of the system of  
the artery pulmonalis prevents irritation of the  
vagus nerve from causing disease in the lungs,  
demonstrating role of the nervous system in dis-  
ease. One table of data.

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CHERNYKH, A. M.

"The Problem of the Significance of Nerve Irritation in the Mechanisms of Disease  
and Convalescence in Experimental Pneumonia" p. 226

"The Mechanism of the Action of Penicillin on Aseptic Inflammation" p. 253

Problema Reaktivnosti v Patologii, Medgiz, Moscow 1954, 344pp.

<sup>U</sup>  
CHERNYKH, A.M.; FEDOROV, B.M.

Disease and recovery according to I.P.Pavlov's teachings. Vest.  
AMN SSSR no.3:47-50 '54. (MLRA 7:11)

(DISEASE,  
Pavlovian theory)  
(NERVOUS SYSTEM, pathology,  
nervovism)

Name: CHERNUKH, Aleksey Mikhaylovich

Dissertation: Nervous Irritation in the Process of  
Inflammation

Degree: Doc Med Sci

Affiliation: Inst of Normal and Pathological  
Physiology, Acad Med Sci USSR

Defense Date, Place: 20 Dec 55, Council of the Department  
of Med-Biol Sci, Acad Med Sci USSR

Certification Date: 28 Apr 56

Source: BMVO 4/57

CHERNUKH, A. M.

"The Role of the Nervous System in the Mechanism of the Action of Certain Antibiotics on the Microorganism", a report presented at the First All-Union Conference Devoted to the Clinical-Experimental Study of Anticlotics, Moscow, 25-27 April 1955, Antibiotiki, No 1, 1956

CHERNUKH, A. M. ( Dr. of Medical Sciences)

"Role of Nervous System in the Mechanics of Action of Some Antibiotics on the Macroorganism, "

p. 65 Ministry of Health USSR Proceedings of the Second All-Union Conference on Antibiotics, 31 May - 9 June 1957., pp. 405, Moscow, Medgiz, 1957.

under the Section on Experiments in the Study of Antibiotics

*Chernukh, A.M.*

CHERNUKH, A.M., doktor meditsinskikh nauk; SOLOV'YEV, V.N., kand.med.nauk;  
ALEKSANDROV, P.N.

Some peculiarities of experimental antibiotic therapy of infectious inflammations. Sov.med. 21 no.9:26-31 S '57. (MIRA 11:1)

1. Iz laboratorii eksperimental'noy terapii Instituta normal'noy i patologicheskoy fiziologii (dir. - prof. V.N.Chernigovskiy) Akademii meditsinskikh nauk SSSR.

(MICROCOCCUS PYOGENES, infect.

aureus, eff. of antibiotic ther. in rats & mice)

(ANTIBIOTICS, eff.

on exper. micrococcus pyogenes aureus infect.)

CHERNUKH, A.M., BREGER, M.A., BALYN', I.R.

Studies on the bacteriostatic and therapeutic properties of the antituberculosis drug 1314 and of its hydrochloride derivative [with summary in English]. Biul. eksp. biol. i med. 46 no.10: 34-37 0 '58 (MIRA 11:11)

1. Iz otdela eksperimental'noy khimioterapii (zav. - doktor meditsinskikh nauk A.M. Chernukh) Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy chlen AMN SSSR V.V. Zakusov) AMN SSSR, Moskva. Predstavlena deystvitel'nyy chlenom AMN SSSR V.V. Zakusovym.

(NICOTINIC ACID ISOMERS, eff.

$\alpha$ -ethylthioisonicotinamide, on various bast. (Rus))



SOLOV'yev, V.N.; CHERNUKH, A.M.

~~Therapeutic effect of novocaine block and dimedrol in experi-~~  
Therapeutic effect of novocaine block and dimedrol in experi-  
mental staphylococcal inflammation of different localization.  
Trudy Inst. norm. i pat. fiziol. AMN SSSR no.1:196-204 '58  
(MIRA 16:12)

1. Iz laboratorii eksperimental'noy terapii (zav. - doktor  
/med. nauk A.M.Chernukh) otdela obshchey i eksperimental'noy  
patologii (zav. - akademik A.D. Speranskiy) Instituta nor-  
mal'noy i patologicheskey fiziologii AMN SSSR.

CHERNUKH, A.M.

Effect of dl-cycloserine on the nervous system. Antibiotiki,  
4 no.2:73-77 Mr-Apr '59. (MIRA 12:7)

1. Otdel eksperimental'noy khimioterapii (zav. - prof. A.M. Chernukh)  
Instituta farmakologii i khimioterapii AMN SSSR.  
(NERVOUS SYSTEM, eff. of drugs on  
cycloserine (Rus))  
(ANTIBIOTICS, eff.  
cycloserine, on CNS (Rus))

CHERNUKH, A.M.; BALASHOVA, V.A.

Effect of chlortetracycline and tetracycline on the iron content  
of the blood serum. Antibiotiki 4 no.4:75-78 J1-Ag '59.  
(MIRA 12:11)

1. Laboratoriya patologicheskoy fiziologii Instituta pediatrii  
AMN SSSR.

(CHLORTETRACYCLINE pharmacol)

(TETRACYCLINE pharmacol)

(IRON blood)

CHERNUKH, A.M.; NEVSTRUYEVA, V.S.; ALEKSANDROV, P.N.

Some experimental data on the effect of various functional conditions of the organism on the concentration of oxytetracycline in various organs. Antibiotiki 5 no.2:41-44 Mr-Ap '60. (MIRA 14:5)

1. Otdel eksperimental'noy khimioterapii (zav. - prof. A.M.Chernukh)  
Instituta farmakologii i khimioterapii AMN SSSR.  
(TERRAMYCIN)

KAPLUN, N.A.; NEVSTRUYEVA, V.S.; MITROFANOV, V.S.; OBROSOV, A.N.; PUCHKOV, N.V.; CHERNUKH, A.M.

Experimental observations on new methods for the administration of antibiotics of the tetracycline group. Antibiotiki 5 no.6:36-41 N-D '60. (MIRA 14:3)

1. Otdel eksperimental'noy khimioterapii (zav. - prof. A.M.Chernukh) Instituta farmakologii i khimioterapii i otdel fizioterapii (zav. - prof. N.A.Vinogradov) Instituta kardiologii i fizioterapii Ministerstva zdravookhraneniya SSSR.

(TETRACYCLINE)

S/016/60/000/05/16/079

AUTHORS: Chernukh, A.M., and Tolmacheva, N.S.

TITLE: The Effects of <sup>16</sup>Aminazin on the Course of Experimental Pneumococcal Infection and the Schwartzmann Phenomenon

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, No. 5, pp. 53 - 57

TEXT: The effects of aminazin on infectious aseptic and allergic inflammations were studied by injecting aminazin intramuscularly into rabbits, previously infected with Pneumococcus Type 1. Aminazin aggravated the clinical course of the illness and increased the mortality rate from the pneumococcal infection. However, aminazin had no effect on the pneumococcal process in white mice. Aminazin inhibited the first stage of the aseptic inflammatory reaction in rats, but in the later stage the disease turned chronic. An injection of 20 mg of aminazin per kg of body weight led to a much weaker Schwartzmann phenomenon than in the control animals. After 40 mg/kg the Schwartzmann phenomenon could not be detected macroscopically. The probable reason is that aminazin inhibits

Card 1/2

S/016/60/000/05/16/079

The Effects of Aminazin on the Course of Experimental Pneumococcal Infection and the Schwartzmann Phenomenon.

the changes in the vascular permeability which are characteristic of the inflammatory process. There are 4 tables and 11 references, 4 of which are Soviet, 1 English, 4 German, and 2 French. ✓

ASSOCIATION: Institut farmakologii i khimioterapii AMN SSSR (Institute of Pharmacology and Chemiotherapy of the AMN, USSR)

SUBMITTED: July 1, 1959

Card 2/2

CHERNUKH, A.M., prof.; KIVMAN, G.Ya., kand.med.nauk

A needed manual ("Methods in experimental chemotherapy." Reviewed  
by A.M.Chernukh, G.IA.Kivman). Farm.i toks. 23 no.2:183-184 Mr-  
Ap '60. (MIRA 14:3)

(CHEMOTHERAPY)



CHERNUKH, A.M., prof.; KIVMAN, G.Ya., kand.meditsinskikh nauk

Achievements and prospects in Soviet chemotherapy. Sov.med. 25  
no.8:39-46 Ag '60. (MIRA 13:9)

1. Iz Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy  
chlen AMN SSSR prof. V.V. Zakusov) AMN SSSR.  
(CHEMOTHERAPY)

KOLOSOVSKIY, Boris Nikodimovich; KOSMARSKAYA, Yelena Nikolayevna; CHERNUKH,  
A.M., red.; ZUYEVA, N.K., tekhn. red.

[Active and inhibited state of the brain] Deiatel'noe i tormoznoe  
sostoianie mozga. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1961.  
410 p. (MIRA 14:8)

(BRAIN)

CHERNUKH, A.M.

Cycloserine and its properties as an antituberculosis agents. Med.  
prom. 15 no. 4:25-28 Ap '61. (MIRA 14:4)

1. Institut farmakologii khimioterapii Akademii meditsinskikh nauk  
SSSR.

(ISOXAZOLIDINONE) (TUBERCULOSIS—PREVENTION)

VYSHEPAN, Ye.D.; IVANOVA, K.I.; CHERNUKH, A.M.

Depression of the activity of glutamic-pyruvic aminopherase  
with DL-cysloserine and other compounds. Biul. eksp. biol.  
i med. 52 no.7:76-80 J1 '61. (MIRA 15:3)

1. Iz Instituta farmakologii i khimioterapii (direktor - deyst-  
vitel'nyy chlen AMN SSSR V.V. Zakusov) AMN SSSR, Moskva.  
Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Zakusovym.  
(TRANSAMINASE) (CYCLOSERINE)

CHERNUKH, Aleksey Mikhaylovich; KIVMAN, Grigoriy Yakovlevich; SOBOLEV,  
V.R., red.; BALDINA, N.F., tekhn. red.

[Antibiotics of the tetracycline group] Antibiotiki gruppy  
tetratsiklinov. Moskva, Medgiz, 1962. 354 p. (MIRA 15:7)  
(TETRACYCLINE)

KAPLUN, N.A.; NEVSTRUYEVA, V.S.; OBROSOV, A.N.; RAZUMOVA, I.L.;  
CHERNUKH, A.M.

Effect of a galvanic current on the inflammation focus; experimental examination. Vop.kur., fizioter. i lech. fiz. kul't.  
27 no.5:417-420 S-0'62. (MIRA 16:9)

1. Iz otdela eksperimental'noy khimioterapii (zav. - prof. A.M.Chernukh) Instituta farmacologii i khimioterapii (dir. deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) i otdela fizioterapii (zav. - prof. N.A.Vinogradov) Instituta kurortologii i fizioterapii (dir. - kand.med. nauk G.N. Pospelova )Ministerstva zdravookhraneniya RSFSR.  
(ELECTROTHERAPEUTICS) (FOCAL INFECTION)

CHERNUKH, A.M.

Reactions of the macroorganism to the action of some antituberculous drugs. Uch. zap. Inst. farm. i khimioter. AMN SSSR 3: 347-357'63. (MIRA 16:9)

1. Department of Chemotherapy of the Institute of Pharmacology and Chemotherapy of the U.S.S.R. Academy of Medical Sciences, U.S.S.R.

(TUBERCULOSIS) (CHEMOTHERAPY)

CHERNUKH A.M.; YUSHCHENKO, N.A.; ALEKSANDROV, P.N. (Moskva)

Effect of the antitubercular preparation trecator (Th1314) on the 24-hour alimentary activity in healthy and vagotomized rats. Pat. fiziol. i eksp. terap. 6 no.6:56-60 N-D'62  
(MIRA 17:3)

1. Iz otdela khimioterapii ( zav. - prof. A.M.Chernukh) Instituta farmakologii i khimioterapii ( dir. - deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) AMN SSSR.



ALEKSANDROV, P.N.; CHERNUKH, A.M.; YUSHCHENKO, N.A. (Moskva)

A 24-hour differential actograph. Pat. fiziol. i eksp. terap.  
6 no.3:73-74 My-Je'62 (MIRA 17:2)

1. Iz otdela khimioterapii (zav. - prof. A.M.Chernukh) Instituta farmakologii i khimioterapii (direktor - deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) AMN SSSR.

SAZYKIN, Yu.O.; CHERNOKH, A.M.

Effect of antibiotics from the neomycin group on the synthesis of proteins and nucleic acids by bacteria under aerobic and anaerobic conditions. Antibiotiki 8 no.9:796-802 S '63.  
(MIRA 17:11)

1. Otdel khimioterapii Instituta farmakologii i khimioterapii AN SSSR.

BARKALAYA, A.I.; CHERNUKH, A.M.

Possibilities of transplacental chemotherapy of the fetus  
with antibiotics from the tetracycline group. Akush. i gin.  
39 no.5:74-79 S-0 '63. (MIRA 17:8)

1. Iz otdela khimioterapii (zav. - prof. A.M. Chernukh)  
Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy  
chlen AMN SSSR prof. V.V. Zakusov).

BRIGER, M.A.; CHERNUKH, A.M.

Experimental study of diambutol, a new antituberculosis preparation. Biol. eksp. biol. i med. 55 / i.e. 56/ no.10:55-57 0'63  
(BIOBA 17:8)

1. Iz otdela eksperimental'noy khimioterapii (dir. - prof. A.M. Chernukh) Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy chlen AMN SSSR prof. V.V. Zekusov) AMN SSSR, Moskva. Predstavleni deystvitel'nym chlenom AMN SSSR V.V. Zekusovym.

CHERNUKH, A.M.; MITROFANOV, V.S.

Evaluation of the effectiveness of thianide in experimental tuberculosis. Pat. fiziol. i eksp. terap. 8 no.1:43-46 Ja-F '54.  
(MIRA 18:2)

1. Otdel khimioterapii (zav.- prof. A.M. Chernukh) Instituta farmakologii i khimioterapii (dir.- deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) AMN SSSR, Moskva.

CHERNUKH, A.M.

Some aspects of the problems of cure and experimental therapy  
in the light of general theories on diseases. Pat. fiziol. i  
eksp. terap. 8 no.4:84-86 J1-Ag '64. (MIRA 18:2)

1. Institut farmakologii i khimioterapii AMN SSSR, Moskva.

CHERNUKH, A.M.; PROKHOROVA, L.N.

Effect of tetracycline on the inflammation focus produced in rats by a subcutaneous injection of a staphylococcal culture. Pat. fiziol. i eksp. teran. 8 no. 10:43-48 M-D '64.

(MIRA 12:6)

1. Otdel khimioterapii (zav. - prof. A.M. Chernukh) Instituta farmakologii i khimioterapii (zav. - depstribel'nyy chlen AMN SSSR prof. V.V. Zakusov) MGU SSSR, Moskva.

SAZENIN, Yu.O.; GIBBUKH, A.M.

Study of the effect of monomycin and kanamycin on the synthesis  
of protein and nucleic acids in the cells of Escherichia coli.  
Antibiotiki 9 no.11:1007-1012 N '64. (MIRA 18:3)

1. Otdel khimioterapii Instituta farmakologii i khimioterapii  
AMN SSSR, Moskva.



CHERNUKH, A.M.

Mechanisms of the development of drug allergy and pharmacotherapy  
of allergic states. Vest. AMN SSSR 19 no.10:63-68 '64.

(MIRA 18:3)

1. Institut farmakologii i khimioterapii AMN SSSR, Moskva.

SAZYKIN, Yu.O.; CHERNUKH, A.M.

Isolation and proper es of the E. coli strains for the growth  
of which are needed streptomycin like antibiotics or macrolides.  
Mikrobiologiya 33 no.4:672-678 J1-Ag '64. (MIRA 18:3)

1. Institut farmakologii i khimioterapii AMN SSSR.

SAZYKIN, Yu.O.; CHERNUKH, A.M.

Effect of neomycins on the protein synthesis in resting  
Escherichia coli cells determined by induced synthesis  
of enzymes and incorporation of S<sup>35</sup>-methionine into proteins.  
Antibiotiki 9 no.4:318-323 Ap '64. (MIRA 19:1)

1. Otdel khimioterapii Instituta farmakologii i khimioterapii  
AMN SSSR, Moskva.

SAZYKIN, Yu.O.; CHERNUKH, A.M.

Neomycin-depending strain of Escherichia coli and the characteristics of the development of infection caused by it in mice. Pat. fiziol. i eksp. terap. 9 no.5:24-27 S-O '65. (MIRA 19:1)

1. Otdel khimioterapii (zav. - prof. A.M. Chernukh) Instituta farmakologii i khimioterapii AMN SSSR, Moskva. Submitted April 29, 1964.

ALEKSANDROV, P.N.; BOGDANOVA, V.A.; CHERNUKH, A.M.

Teratogenic effect of the intermediate products of thalidomide  
synthesis on chicken embryos. Farm. i toks. 28 no.6:744-747  
N-D '65. (MIPA 19:1)

1. Otdel khimioterapii (zav. - prof. A.M.Chernukh) Instituta  
farmakologii i khimioterapii AMN SSSR, Moskva.

CHERNUKH, A.M., prof.; BALASHOVA, V.A.

Effect of aminazine on the permeability of skin capillaries in various age periods. Farm. i toks. 28 no.1:61-63 Ja-F '65.

(MIRA 18:12)

1. Laboratoriya patofiziologii (zav. - prof. N.V.Puchkov)  
Instituta pediatrii AMN SSSR i otdela khimioterapii (zav. - prof. A.M.Chernykh) Instituta farmakologii i khimioterapii AMN SSSR, Moskva. Submitted January 13, 1964.

CHERNUKH, A. M.

"Influence of some antibiotics on the macroorganism during changes in its re-activity."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Inst for Pharmacology & Chemotherapy, AMS USSR, Moscow.

CHERNUKH, Aleksey Mikhaylovich; FEDOROV, B.M., red.

[Infection focus of inflammation; problems of disease,  
recovery and treatment] Infektsionnyi ochag vospaleniia;  
voprosy zabolevaniia, vyzdorovleniia, lecheniia. Moskva,  
Meditsina, 1965. 322 p. (MIRA 19:1)



ALEKSANDROV, P.N.; BOGDANOVA, V.A.; IVANOV, A.I.; SKOLDINOV, A.P.;  
CHERNUKH, A.M.

Method for preliminary estimation of teratogenic activity of  
pharmacological preparations on chicken embryos. Vest. AMN  
SSSR 20 no.3:78-81 '65. (MIRA 18:7)

1. Institut farmakologii i khimioterapii AMN SSSR, Moskva.

CHERNUKH, A.M.; ALEKSANDROV, P.N.

Experimental data on the influence of some drugs on embryogenesis  
and cell division. Pat. fiziol. i eksp. terap. 9 no.3:41-44  
My-Je. '65. (MIRA 18:9)

1. Otdel khimioterapii (zav.- prof. A.M. Chernukh) Instituta  
farmakologii i khimioterapii (dir.- deystvitel'nyy chlen  
AMN SSSR prof. V.V. Zakusov) AMN SSSR. Moskva.

ALEKSANDROV, P.N.; GRIBANOVSKIY, T.B.; CHERNUKH, A.M., prof.

The MF-2 microphotometer used as a cytophotometer. Pat.fiziol.  
i eksp. terap. 9 no.4:91-93 J1-Ag '65. (MIRA 18:9)

1. Otdel khimioterapii (zav. - prof. A.M.Chernukh) Instituta  
farmakologii i khimioterapii (direktor - deystvitel'nyy chlen  
AMN SSSR V.V.Zakusov) AMN SSSR, Moskva.

MEDVEDEV, I.A.; CHERNUKH, A.P.; DUBINA, Yu.G.

Applying methods of mathematical statistics to operational  
control of open hearth production. Izv. vys. ucheb. zav.;  
chern. met. 7 no.12:173-177 '64 (MIRA 18:1)

1. Dnepropetrovskiy metallurgicheskii institut.

BRABETS, V.[Brabec, V.]; KRATSIK, B.[Kracik, B.]; KRATSIKOVA, T.  
[Kracikova, T.]; MASHTALKA, A.[Mastalka, A.]; VEYS, M.  
[Weis, M.]; VOBETSKI, M.[Vobecky, M.]; CHERNUKH, I.  
[Cernuch, J.]

Spectrum of conversion electrons from  $Hf^{172}$ . Izv. AN SSSR. Ser.  
fiz. 16 no.12:1486-1487 D '62. (MIRA 16:1)

1. Institut yadernykh issledovaniy Chexoslovatskoy akademii  
nauk, Rzhesh, i Fakul'tet tekhnicheskoy i yadernoy fiziki  
ChVUT [Ceske vysoke uceni technicke].

(Internal conversion(Nuclear physics))  
(Beta-ray spectrometer)  
(Hafnium—Isotopes)

MEDVEDEV, I.A.; BEL'GOL'SKIY, B.P.; CHERNUKHA, A.P.

Operative control of basic technical and economic indices of  
open-hearth production. Met. 1 gornorud. prom. no.6:17-19  
N-D '64. (MIRA 18:3)

1. Dnepropetrovskiy metallurgicheskiy institut.

/ Ideas in ...  
other

... solutions and ...

5/ Complexometric determination of zinc and cadmium in  
cyanic electrolytes. G. N. Chernukhin and K. M. [unclear]  
Zavodskaya Lab 22, 656-77031) — Zn and Cd  
electrolytes of either Zn or Cd electroplating  
to the corresponding cyanamides with  
a titration with 0.08M Trilon B with Chromog  
an indicator at pH 9.0 as follows: In  
electrolyte to 250 ml with 2-30 ml H<sub>2</sub>O, 5 ml  
NH<sub>4</sub>Cl 5% + NH<sub>4</sub>OH 30% g 1.0-2.0 ml  
0.5-0.6 g. of the indicator mixed with NaCl  
of 1:400 and titrate with 0.08M Trilon B  
till the wine-red color changes to blue. H<sub>2</sub>O  
duced and the analysis is completed in 5

2



POLYAK, E.A.; STREL'NIKOVA, N.P.; PAVLOVA, V.N.; RIVNYY, V.S.; ONUFRIYENOK,  
I.P.; SOKOLOVICH, V.B.; LEKHOVITSKIY, I.N.; ALEKSANDROVA, Ye.N.;  
~~CHERNUKHA, G.N.~~

Brief reports. Zav.lab. 25 no.2:162-163 ' 59. (MIRA 12:3)

1. Sverdlovskiy zavod khimicheskikh reaktivov (for Polyak). 2. Noril'-  
skiy gorno-metallurgicheskiy kombinat (for Strel'nikova, Pavlova).  
3. Slavyanskiy sodovyy kombinat (for Rivnyy). 4. Tomskiy politekhnich-  
skiy institut (for Onufriyenok, Sokolovich). 5. Khar'kovskiy elektrotekhnich-  
skiy zavod (for Lekhovitskiy, Aleksandrova). 6. Moskovskiy mashinostroitel'-  
nyy zavod (for Chernukha).

(Chemistry, Analytical)

EWP(q)/EWT(m)/BDS--AFFTC/ASD--JD/JG  
L 11203-53

ACCESSION NR: AP3000490

S/0129/63/000/005/0049/0054

51

AUTHOR: Bernshteyn, M. L.; Demina, E. L.; Liberman, Ye. E.; Chernukha, L. G.

56

TITLE: Polygonization in molybdenum and its alloys.

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 5, 1963 49-54

TOPIC TAGS: polygonization in molybdenum, zirconium, titanium

ABSTRACT: Authors made tests on molybdenum which was obtained by powder metallurgy method, on cast molybdenum, on cast molybdenum alloys with admixtures of zirconium titanium as well as cast molybdenum alloys with simultaneous admixtures of zirconium and titanium. For selection of recrystallization conditions, the samples were heated to 1250, 1300, 1400, 1500 and 1600 degrees with holding at 5, 10, 15, 20 and 30 minutes. The microstructures were studied and optimum annealing conditions were established. In addition, treatment conditions were established which produced the most developed polygonized structure in the molybdenum and its alloys. Microstructure testing was done by subjecting the samples to deformation, deformation and annealing at 1000-1600 degrees, and, finally, after deformation and double annealing at polygonization and higher temperatures. The changes in the structure of molybdenum and its alloys were also studied in relation to

Card 1/2

L 11203-63

ACCESSION NR: AP3000490

holding period at optimum treatment conditions. Authors conclude that polygonization raises the temperature of subsequent recrystallization which is important for employing molybdenum and its alloys at elevated temperatures. As a result of development of polygonization in the tested materials, an increase of resistance to small plastic deformations occurs. Orig. art. has: 6 figures.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute for Steels and Alloys)

SUBMITTED: 00

DATE ACQD: 03Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 000

*mes/cs*  
Card 2/2

L 05719-67 EWT(m)/T/EWT(t)/ETI/EWP(k) IJP(c) JD/HW/DJ

ACC NR: AR6014354

(A, N)

SOURCE CODE: UR/0277/65/000/011/0010/0010

AUTHORS: Konter, L. Ya.; Zakharova, V. L.; Bernshteyn, M. L.; Chernukha, L. G.

TITLE: An investigation of high-temperature thermomechanical treatment of bearing steel

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktii i raschet detaley mashin. Gidropriwod, Abs. 11.48, 81

REF SOURCE: Tr. Vses. n.-i. konstrukt.-tekhnol. in-ta podshipnik. prom-sti, no. 4(40), 1964, 12-24

TOPIC TAGS: bearing steel, metallurgic research, *mechanical heat treatment, metal property, ball bearing, roller bearing,* ~~metallurgic process, steel~~, steel structure / ShKh15 steel

ABSTRACT: The influence of the high-temperature thermomechanical treatment (HTT) on the structure and properties of ShKh15 steel has been investigated. The HTT process involves heating in the interval of 910—1000C, deformation by rolling out to 10—50%, water or oil quenching, and tempering. A control group of specimens was subjected to standard treatment. Applied at optimal conditions, HTT improves several properties of ShKh15 steel. An experimental technique of applying HTT to bearing rings has been developed, and a number of ball bearings and roller bearings has been produced for experimental purposes. 15 illustrations. Bibliography of 6 titles. *[Translation of abstract]*

Card 1/1, SUB CODE: 21, 13

UDC: 669.14.018.24

NAUMOV, Georgiy Karpovich, kand. ekon. nauk; KONAREV, Nikolay  
Semenovich, inzh.; SILAYEV, Nikolay Ivanovich, kand. ekon.  
nauk dots.; FERAPONTOV, Gennadiy Viktorovich, inzh.;  
CHERNUKHA, Nikolay Timofeyevich, inzh.; GOLITSIN, Boris  
Vasil'yevich, inzh.; KRIMNUS, Grigoriy Kharitonovich, kand.  
ekon. nauk, dots.; KOLTUNOVA, M.P., red.

[Economics of railroad freight transportation] Ekonomika gru-  
zovogo khoziaistva zheleznykh dorog. Moskva, Transport,  
1965. 238 p. (MIRA 18:12)

NAUMOV, Georgiy Karpovich; SILAYEV, Nikolay Ionovich; STEPANOV, Nikolay Yakovlevich; USHAKOV, Pavel Semenovich; ~~CHERNUKHA, Nikolay Timofeyevich~~; BERZHIGAL, Lazar' Davidovich; STARTSEV, A.N., inzh., retsenzent; KOLTUNOVA, M.P., red.; BOBROVA, Ye.N., tekhn.red.

[Economics of the work of railroad stations] Ekonomika raboty stantsii. Moskva, Vses.izdatel'sko-poligr.Ob"edinenie M-va putei soobshchenia, 1961. 262 p. (MIRA 14:6)  
(Railroads--Stations)

NAUMOV, Georgiy Karpovich; SILAYEV, Nikolay Ionovich; CHERNUKHA,  
Nikolay Timofeyevich; SHCHERBAKOV, P.D., retsenzent; PESKOVA,  
L.N., red.; USENKO, L.A., tekhn. red.

[Business accounting in a railroad section] Khoziaistvennyi  
raschet na otdelenii zheleznoi dorogi. Moskva, Transzheldor-  
izdat, 1962. 158 p. (MIRA 15:12)  
(Railroads--Accounting, bookkeeping, etc.)

CHERNUKHA, S.A.

Tuberculoma of the pharynx. Zhur. ush., nos. i gorl. bol. 20  
no.6:82-83 N-D '60. (MIRA 15:2)

1. Iz otdeleniya bolezney ukha, gorla i nosa Trostyanetskoy  
gorodskoy bol'nitsy Sumskoy oblasti.  
(PHARYNX\_TUBERCULOSIS)



KONOVALOV, N., inzh.; KUROPATIN, P., kand.tekhn.nauk; NOBNEVSKIY, B.,  
prof.; NIKEL'SHPURG, I., inzh.; CHERNUKHA, V., inzh.

Automatic regulation of voltage and the distribution of loads  
during the parallel operation of suspended ship generators.  
Mor. flot 23 no.11:27-30 N 63. (MIRA 16:12)

1. Leningradskoye vyssheye inzhenernoye morskoye uchilishche im.  
admirala Makarova.

ARKHIPOV, B.A.; KOMAROV, Yu.S.; TITKO, B.S.; CHERNUKHA, V.Kh.;  
BALMASOV, Ye.Ya., kand. tekhn. nauk, nauchn. red.;  
ALYAKRINSKIY, A.K., inzh., nauchn. red.; POSTNOVA, I.D.,  
red.; PETRENKO, V.M., tekhn. red.

[Wood processing at the Bratsk Woodworking Combine] Podgo-  
tovka drevesiny na Bratskom lesopromyshelnom komplekse.  
Moskva, TSentral'nyi nauchno-issl. in-t informatsii i tekhniko-derevoobrabatyvaiushchei promyshl. i lesnomu khoz.,  
1963. 22 p. (MIRA 16:11)  
(Bratsk--Woodworking industries)

LEONOV, M.Ya.; CHERNUKHA, Ye.A.

Investigating longitudinal-lateral bending. Nauch.zap.IKA AN URSR.  
Ser.mashinoved. 7 no.7:85-89 '61. (MIRA 15:1)  
(Elastic plates and shells)

CHERNUKHA, Yu. A.

Boundary effect in a uniformly loaded plate. Nauch.zap. IMA AN  
URSR. Ser. mashinoved. 7 no. 7:90-95 '61. (MIRA 15:1)  
(Elastic plates and shells)

LEONOV, Mikhail Yakovlevich Prinimali uchastiye: ZORIY. L.M.;  
CHERNUKHA, Yu.A.; SHVAYKO, N.Yu.; IVASHCHENKO, A.N.;  
LIBATSKIY, L.L.; BURAK, Ya.I.; RUSINKO, K.N.; FOMENKO,  
V.L., red.izd-va; ANOKHINA, M.G., tekhn. red.

[Fundamentals of the mechanics of an elastic solid] Osnovy  
mekhaniki uprugogo tela. Frunze, Izd-vo AN Kirgizskoi SSR.  
No.1. 1963. 328 p. (MIRA 16:12)  
(Elastic solids)

CHERNUKHA, Yu.A.

Investigating the stability of shallow arches. Nauch.zap. IMA AN URSR.  
Ser.mashinoved. 20:3-22 '64. (MIRA 17:10)

CHERNUKHA, Yu. G., Cand Med Sci--(diss) "Sources (reservoirs) of  
pathogenic leptospir<sup>a</sup>~~ae~~ in certain ~~part~~<sup>territories</sup> of the Moskovskaya and  
Smolenskaya Oblast<sup>s</sup>. Mos, 1950. 15 pp.  
(Acad Med Sci USSR. Inst of Epidemiology and Microbiology in Honored  
Acad V.F. Gamaley), 200 copies: (M,22-58,116)

-192-

USSR / Microbiology. Microbes, Pathogenic to Man and Animals. Bacteria. Spirochaeta. F

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19620

Author : Chernukha, Yu. G.

Inst : ~~Not given~~

Title : Sources of Leptospirosis Infection in the Constantinov Nidus of Moskovskaya Oblast'

Orig Pub : Zh. mikrobiol., epidemiol. i immunobiol., 1958, No 1, 27-32

Abstract : An examination of the sources of water-fever infection in 1954-1956 indicated that the carriers of *Leptospira grippotyphosa* (Type I) are the field mouse, the dark field vole, the water rat, the shrew and the water shrew; *L. neor* (Type XIV) is carried by the field mouse. Cattle which

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USSR / Microbiology. Microbes, Pathogenic to Man and      F  
Animals. Bacteria. Spirochaeta.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19620

were studied were not sources of infection.  
-- A. N. Shibayev

Card 2/2

CHERNIKOVA, YU. G., FOMIN, I. L.

"Hepatitis A in the Smolensk and Moscow oblasts." p. 172.

Deputatnye soobshcheniya po parazitologicheskim i prirodnym boleznyam. 22-29 Oktyabr' 1959 g. (Twenty Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1. 25pp.

Inst. of Epidemiology and Microbiology, AMS USSR/ Moscow

ANAN'IN, V.V.; KARASEVA, Ye.V.; SEMENOVA, L.P.; CHERNUKHA, Yu.G.

Natural foci of leptospirosis in the Altai. Zhur.mikrobiol.  
epid. i immun. 30 no.3:61-66 Mr '59. (MIRA 12:5)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.

(LEPTOSPIROSIS, transm.  
natural foci (Rus))

TERSKIKH, V.I.; CHERNUKHA, Yu.G.; KOKOVIN, I.L.; KUZ'MINA, R.M.; PRUDNIKOVA,  
M.N.; SORINA, A.M.; ZANEGINA, P.T.

Regional epidemiology of leptospiroses in Smolensk Province. Zhur.  
mikrobiol. epid. i immun. 31 no.7:123-127 J1 '60. (MIRA 13:9)

1. Iz Instituta epidemiologii i mikrobiologii im. Gamalei AMN SSSR  
i Smolenskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.  
(SMOLENSK PROVINCE--LEPTOSPIROSIS)

CHERNUKHA, Yu.G.; KOKOVIN, I.L.; SVESHNIKOVA, N.P.

Method and technic of detecting transmission of leptospirosis in small mammals. Lab. delo [7] no.4:34-37 Ap '61. (MIRA 14:3)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamaleu AMN SSSR.

(LEPTOSPIROSIS)

(ANIMALS AS CARRIERS OF DISEASE)

CHERNUKHA, Yu.G.; KOKOVIN, I.L.

Leptospirosis of the saxkoebing type. Zhur.mikrobiol., epid.i  
immun. 32 no.12:84-87 D '61. (MIRA 15:11)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.

(LEPTOSPIROSIS)

CHERNUKHA, Yu.G.; SEMENOVA, L.P.; KARASEVA, Ye.V.; DUMAYEVA, T.N.

Isolation of a mixed culture of the Bataviae type of leptospira  
and of the erysipelas pathogen (Erysipelothrix rhusiopathiae).  
Zhur. mikrobiol., epid. i immun. 33 no.1:118-121 Ja '62. (MIRA 15:3)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.

(ERYSIPELOTHRIX RHUSIOPATHIAE)  
(LEPTOSPIRA)

KARASEVA, Ye.V.; CHERNUKHA, Yu.G.; SEMENOVA, L.P.

Study of natural foci of leptospirosis in northern Kazakhstan  
and on the flatlands of the Altai Territory. Zhur. mikrobiol.,  
epid. i immun. 33 no.7:13-18 J1 '62. (MIRA 17:1)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.



CHERNUKHA, Yu.G.; SOLOSHENKO, I.Z.; SEMENOVA, L.P.; HOBOVSKIY, V.N.

Materials on the epidemiology of leptospirosis in the North  
Ossetian A.S.S.R. Zhur. mikrobiol. epid. i immun. 40 no.5:  
52-55 My '63. (MIRA 17:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.

KARASEVA, Ye.V.; SEMENOVA, L.P.; SOLOSHENKO, I.Z.; CHERNUKHA, Yu.G.;  
BOBROVSKIY, V.N.

Natural foci of leptospirosis in the North Ossetian A.S.S.R.  
Zhur. mikrobiol. epid. i immun. 40 no.5:56-60 My '63.

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei (MIRA 17:6)  
AMN SSSR.

CHERNUKHA, Yu.G.

Serological characteristics of the Moniakov strain of leptospira.  
Zhur. mikrobiol., epid. i immun. 41 no.3:138 Mr '64. (MIRA 17:11)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

CHERNUKHA, Yu.G.; KARASEVA, Ye.V.

Leptospiral infections of the Lora type (australis serological group)  
in the Georgian S.S.R. Zhur.mikrobiol., epid. i immun. 41 no.5:77-81  
My '64. (MIRA 18:2)

1. Institut epidemiologii i mikriobiologii imeni Gamalei AMN SSSR.

CHERNUKHA, Y.G.

Serological classification of the leptospiral strain Monjakov.  
J. hyg. epidem. (Praha) 9 no.2:227-232 '65.

1. Gamaleya Institute of Epidemiology and Microbiology, Academy  
of Medical Sciences of the U.S.S.R., Moscow.

CHERNUKHA, Y.G.; KORN, M.Y.

Results of use of the fluorescence technique in study of  
Leptospirae. J. hyg. epidem. (Praha) 9 no.2:240-246 '65.

1. Gamaleya Institute of Epidemiology and Microbiology, Academy  
of Medical Sciences of the U.S.S.R, Moscow.

DRIVOTINOV, B.V., kand.med.nauk; SIDORENKO, G.I., kand.med.nauk; MELAMED,  
S.I., kand.med.nauk; DOVGYALLO, O.G., aspirant; CHERNUKHO, V.L.,  
vrach; BUTSEL', A.M., vrach; VERZUNOVA, G.I., vrach; MUL'CHEVSKAYA,  
Ye.S., vrach

Some peculiarities in the clinical course of grippe in 1959. Zdrav.  
Belor. 5 no.1:40-42 Ja '60. (MIRA 13:5)

1. Iz II klinicheskoy bol'nitsy Minska.  
(MINSK--INFLUENZA)

SOKOLOV, V.; CHERNUSHKIN, A.

A severe climate is no hindrance. Okhr.truda i sots.strakh. 5  
no.12:8-9 D '62. (MIRA 16:2)

1. Zaveduyushchiy otделom sotsial'nogo strakhovaniya  
Taymyrskogo okruzhnogo komiteta professional'nogo soyuza  
rabochikh metallurgicheskoy promyshlennosti (for Sokolov).
2. Doverennyy vrach Krasnoyarskogo krayevogo soveta professional'-  
nykh soyuzov (for Chernushkin).  
(Noril'sk--Industrial hygiene)



CHERNUKHIN, A.

After school. Prof.-tekhn. obr. 18 no.7:9-10 J1 '61.

(MIRA 14:7)

1. Inspektor Krasnoyarskogo kravevogo upravleniya professional'no-  
tekhnicheskogo obrazovaniya.

(Krasnoyarsk Territory--Labor supply)

CHERNUKHIN, A.A.

Economical problems on power concentration in condensing electric  
power plants. Nauch. dokl. vys. shkoly; energ. no.2:69-77 '58.  
(Electric power plants) (MIRA 11:11)

CHERNUKHIN, A.A., inzh.; KASHKOVSKIY, I.K., inzh.

Expenditures on high-voltage networks in the construction of large electric power plants. Izv. vys. ucheb. zav.; energ. 3 no. 9:115-123 S '60. (MIRA 13:9)

1. Moskovskiy inshenerno-ekonomicheskiy institut imeni S. Ordzhonikidze. Predstavlena nauchno-issledovatel'skoy laboratoriyey ekonomiki i organizatsii proizvodstva Mosgorsovnarkhoza.  
(Electric power distribution)

S/196/61/000/012/013/029  
E194/E155

AUTHOR: Chernukhin, A.A.

TITLE: Fundamental problems of the technological-economic effectiveness of concentrating generating capacity of condensing power stations

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.12, 1961, 4, abstract 12E 21. (Tr. Vses. zauchn. energ. in-ta, no.15, 1960, 40-65)

TEXT: The technical and economic effectiveness of concentrating the generating capacity of condensing power stations is considered in connection with the overall electrification of the Soviet Union. An analysis is given of the main factors affecting the choice of capacity for condensing power stations located in the main fuel centres of the country - in the region of the Kansk-Achinsk, Donets and Kuznetsk coal basins and Ekibastuz. An analysis is made of the influence of unit set output, the number of sets and the steam conditions on the total capacity of the station; of the cost of the high-voltage transmission system when stations of large capacity are constructed.  
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Fundamental problems of the ...

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E194/E155

of the influence of water supply on the selection of station capacity, and the cost of transporting coal within the coal field when the capacity of condensing stations is concentrated. Analyses of criteria of capital investment and running costs are based on financial estimates and economic aspects of a number of projected large thermal power stations burning coal, with various sizes and arrangements of main equipment. The analyses indicate that if the output of a station is raised from 600 to 1800 MW and the number of identical sets of unit output 200 MW is increased, the specific capital costs are reduced by about 13-14%, whilst if three sets of 600 MW are used the corresponding reduction is 36-38%. Increasing the number of sets in the turbine hall beyond 6 gives no further economic advantage. If the boiler-turbine unit system is used the initial costs are reduced by 7-9%, other things being equal. Increasing the capacity of power stations presupposes the need for extensive development of 110-500 kV transmission systems. In 1955 the specific length of transmission lines of 110 kV and above was

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Fundamental problems of the ...

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only about 1 km/MW, but in 1965 it should be 1.5-1.7 km/MW. When the station capacity is increased from 300 to 2400 MW, in the load density range of from 50 to 3 kW/km<sup>2</sup> respectively, the capital costs on transmission systems of 110 kV and above increases by a factor of 1.5-1.6. The changes in operating costs are of similar character. ✓

[Abstractor's note: Complete translation.]

Card 3/3

KONSON, Aron Solomonovich; PAVLININ, V.M., retsenzents; BATOV, B.I.,  
retsenzents; ~~CHERNUKHIN, A.A.~~, retsenzents; VITEBSKIY, I.D.,  
retsenzents; SABININ, Yu.A., red.; SOBOLEVA, Ye.M., tekhn.  
red.

[Economic principles of the design of electric machinery, apparatus, and devices] Ekonomicheskoe obosnovanie proektov elektricheskikh mashin, apparatov, priborov. Moskva, Gosenergoizdat, 1963. 218 p. (MIRA 16:8)

1. Ural'skiy politekhnicheskiy institut (for Pavlinin, Batov).
2. Vsesoyuznyy zaochniy energeticheskiy institut (for Chernukhin, Vitebskiy).

(Electronic apparatus and appliances)  
(Electric machinery)

CHERNUKHIN, Anatoliy Anatol'yevich; KURNAYEV, M.F., red.; YASHUKOVA,  
N.V., tekhn. red.

[Main problems of the economic efficiency of capital investments in the power engineering of the U.S.S.R.] Osnovnye voprosy ekonomicheskoi effektivnosti kapitalovlozhenii v elektroenergetike SSSR. [n.p.] Rosvuzizdat, 1963. 160 p.  
(MIRA 17:2)



POLONSKIY, M.L., inzh.; CHERNUKHIN, A.M., inzh.; CHEBOTKOV, B.G., kand.  
tekh. nauk

Tractor-type rubble layer. Stroi. i dor. mash. 9 no.5:11-13  
My '64. (MIRA 17:6)

SHAKHMATOV, M.A., inzh.; CHERNUKHIN, A.V., inzh.

Special features in the installation and regulation of  
primary generators with water and hydrogen cooling.  
Elek. sta. 35 no. 4:41-44 Ap '64. (MIRA 17:7)

CHEKUNKHIN, ADOL'F YEFIMOVICH, ed.

The English-Russian technical dictionary.  
Moscow, State Theoretical Technical Pub. House, 1934. xxix, 1213p.

DIC: T 9.013 1934

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library  
of Congress, 1953.

CHERNIKHIN, ADOLF YEFIMOVICH, ed.

English-Russian technical dictionary. 2d ed., rev.  
Moscow, Editorial Office of Technical Encyclopedias and Dictionaries, 1938. 688 p.

Bibliography: p. (c)

DLC: T9.C53 1938

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library  
of Congress, 1953.

CHEBUNKIN, ANATOL'Y FEFIOVICH, ed.

English-Russian technical dictionary. New York, International University  
press (1944) 3 p. 1., (9)-674 p.

a reissue of the 2d ed. rev. (Moscow, 1939)

DIC: T9.C53 1944

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library  
of Congress, 1953.

PRONINA, R.F., prepodavatel'; BEGUN, A.I., prepodavatel'; VOLKOVA, N.S.,  
prepodavatel'; MOSHCHUK, Ye.I., prepodavatel'; FUKS, Ye.A.,  
prepodavatel'; KHOLCHEVA, A.S., prepodavatel'; CHERNUKHIN, A.Ye.,  
red.; ZHAVORONKOV, I.I., red.; KHITROV, P.A., tekhn.red.

[English-Russian railroad dictionary] Anglo-russkii zheleznodoroznyi slovar'. Pod red. A.E. Chernukhina. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 662 p. (MIRA 12:2)

1. Kafedra inostrannykh yazykov Moskovskogo instituta inzhenerov zheleznodorozhnogo transporta (for Pronina, Begun, Volkova, Moshchuk, Fuks, Kholcheva).

(English language--Dictionaries--Russian)  
(Railroads--Dictionaries)

CHEERNUKHIN, A.Ye., inzh.

Hungarian transportation dictionary "Transportation; an explanatory technical dictionary" by Boldizsar Vasárhelyi. Reviewed by A.E. Chernukhin). Zhel.dor.transp. 42 no.8:96 Ag '60. (MIRA 13:9)

1. Avtor i redaktor Anglo-russkikh obshchetekhnicheskogo i zheleznodorozhnogo slovarey.

(Hungary--Transportation--Dictionaries)

(Vasárhelyi, Boldizsar)

S/154/60/000/02/02/018  
B012/B123

AUTHOR: Chernukhin, L. S., Docent, Candidate of Technical Sciences

TITLE: Peculiarities of the Application of the National Geodetic  
Net to Land Surveys Under the Conditions of Western Siberia<sup>12/</sup>  
(as Based on the Experience of the Siberian Department  
"Sel'khozaeros"yemka")

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i  
aerofotos"yemka, 1960, No. 2, pp. 13-14

TEXT: The aerogeodetic center Vsesoyuznaya kontora "Sel'khozaeros"yemka"  
(All-Union Office "Sel'khozaeros"yemka") performs each year photomap  
surveys over more than 300,000 km<sup>2</sup>. The net which is the basis of this  
work, was established by GUGK and is very diffuse. The lack of a dense  
net, however, makes it necessary to use only an informative photo-planning  
for agricultural purposes. This material cannot be used for the purpose  
of national topography. The costs are two to three times higher than  
with an additional triangulation net. Besides, in 1958/59 triangulation  
points were determined by Sverdlovskoye predpriyatiye (Sverdlovsk Center)

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Peculiarities of the Application of the National Geodetic Net to Land Surveys Under the Conditions of Western Siberia (as Based on the Experience of the Siberian Department "Sel'khozaeros"yemka") S/154/60/000/02/02/018 B012/B123

of the GUGK within the Petropavlovsk project, which are today, however, already useless. In order to condense the basic geodetic net, to cut costs, to improve the quality, and to increase the extent of work, the author demands that 1) in the next five to ten years the net should be condensed for purposes of civil authorities according to modern technical demands. 2) In determining the sequence of the establishment of the national geodetic base-net the prospects of the official surveys in single parts of the USSR should be considered, especially in the northern regions of Western Siberia. 3) Where official institutes perform their work on vast areas, typified geodetic ground marks should be established. 4) The construction of geodetic fixed points in regions with highly developed agriculture has to warrant their absolute durability. 5) A strengthening of the azimuthal poles is necessary at triangulation points of all orders. 6) In plain and hilly terrain bench marks, based on leveling, should be added to all triangulation points. 7) In closed forest regions one

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Peculiarities of the Application of the  
National Geodetic Net to Land Surveys  
Under the Conditions of Western Siberia  
(as Based on the Experience of the Siberian  
Department "Sel'khozaeros"yemka")

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B012/B123

geodetic fixed point should exist for every 30 - 35 km<sup>2</sup>.

ASSOCIATION: Omskiy sel'skokhozyaystvennyy institut  
(Omsk Institute of Agriculture)



Card 3/3

MIKHNEVICH, Grigoriy Vasil'yevich, dots.; RYAZANOV, Viktor Pavlovich, dots.; SIBIRYAKOVA, Aleksandra Dmitriyevna, dots. Prinimali uchastiye: BATRAKOV, Yu.G., dots.; VITMAN, A.I., dots.; YUNOSHEV, L.S., aspirant; KOROBOCHKIN, M.I., assistant; NEKHOROSHEV, M.Ye., retsenzent; BOGOLYUBOVA, N.S., retsenzent; NIKOLENKO, N.F., retsenzent; CHERNUKHIN, L.S., retsenzent; NESHCHADIMOV, L.S., retsenzent; LARCHENKO, Ye.G., prof., red.

[Surveying] Geodeziia. Moskva, Nedra. Pt.2., 1964. 338 p.  
(MIRA 17:12)

1. Zamestitel' nachal'nika Upravleniya sel'skokhozyaystvennykh aerofotos"yemok (for Nekhoroshev). 2. Kafedra vysshey geodezii Omskogo sel'skokhozyaystvennogo instituta (for Bogolyubova, Nikolenko, Chermukhin, Neshchadimov).

| LIST AND THE SERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  | PROCESSES AND PROPERTIES INDEX |  |  |  |  |  |  |  |  |  | MATERIALS INDEX |  |  |  |  |  |  |  |  |  |
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| <p>4570. DRAINAGE OF FIELDS FROM WHICH MACHINE-CUT PEAT IS OBTAINED.<br/>           Chermukhin, S. Ya. (Torfyanaya Prom. (Peat Ind.), 1949, (12), 4-7).<br/>           Descriptions of the DVM-4 drain cutting machine, electrically<br/>           driven with a trailing cable and mounted on tracks. It forms a<br/>           trench up to 1.5 m. deep, 15.2 c.m.s wide at the bottom and 11.2<br/>           c.m.s wide throughout most of its depth. The top of the trench is<br/>           closed by two wheels which run either side of it and pinch its<br/>           lips together. Peat-collecting machines can then cross these trenches<br/>           without bridges. Figures are given for the effect of drainage in<br/>           lowering water levels and for the reduction in cross-sectional<br/>           area of drains during the working of a peat field. There is also<br/>           a recommended drainage layout with collecting ditches 250m apart<br/>           fed by drains at right angles to them, 7 to 12m apart. (L)</p> |  |  |  |  |  |  |  |  |  |                                |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |
| <p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                                |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |
| FROM DIVISION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  | FROM BOWING                    |  |  |  |  |  |  |  |  |  | FROM DIVISION   |  |  |  |  |  |  |  |  |  |
| LONDON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  | LONDON                         |  |  |  |  |  |  |  |  |  | LONDON          |  |  |  |  |  |  |  |  |  |
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